Serial No. 09/239,871   TRW Docket No. 22-0071

IN THE CLAIMS:

Please amend claims 1, 17 and 18 as follows.

1.   A receiver comprising:

a memory including an addressable storage array which stores a sequence of data samples contained in a time division multiplexed signal from a plurality of channels with each successive data sample belonging to a channel different from a channel to which an immediately preceding data sample belongs and outputs the stored data samples in a sequence of data groups equal in number to a number of the plurality of channels with each data group containing a plurality of samples from one of the plurality of channels; and

a decoder, responsive to the sequence of data groups, which decodes the data samples within the sequence of data groups and outputs decoded data samples of the plurality of data groups from the plurality of channels.

17.   A method of data reception comprising:

receiving and storing a time division multiplexed   signal containing a sequence of data samples from a plurality of channels with each successive data sample belonging to a channel different from a channel to which an immediately preceding data sample belongs;

outputting the stored data samples in a sequence of data groups equal in number to a number of the plurality of channels, each data group containing a plurality of samples from one of the plurality of channels;

decoding the data samples within the sequence of data groups; and

5

Serial No. 09/239,871   TRW Docket No. 22-0071

outputting the decoded data samples of the plurality of data groups from the

plurality of channels .

18.   A method in accordance with claim 17 wherein:

the data samples each comprise orthogonally encoded data; and

the decoder is an inner code soft decision biorthogonal decoder.

6